

Amendments to the Specification:

Amend paragraph [0015] as follows:

-- Alternatively, there is the possibility that adjacent segments have a common separating wall. In this case, the core of the wall generally consists is comprised of an electrically insulating material. --

Amend paragraph [0050] as follows:

-- As shown in Fig. 4 in the present case, the capillary tubes 8 have a radially inner cloverleaf profile 9, which is surrounded by a lattice-like structure as the electrode 10, which in turn is provided with a radially external catalyst 11. A radially external membrane 12 surrounds the structure of the capillary tube 8. Since the profile 9 consists is comprised of an electrically conductive material that supports the capillary tube 8, and this material is especially a metal, preferably titanium, the electric potential on the lattice-like structure and on the profile 9 itself can be tapped as an electrode 10 led out at both ends. --

Amend paragraph [0058] as follows:

-- In the fuel cell 30, a plurality of capillary tubes 34 is again bundled in six segments 35 to 40 (see Figure 11). The capillary tubes 34, which have the same design, have a coiled core as an electrode 41. However, a tubular electrode is preferred, whose surface has a lattice-like design, is covered with a catalyst, and consists of includes a titanium expanded metal mesh or titanium wire cloth. Finally, the electrode is annularly surrounded by a membrane 42. In the present specific embodiment of a direct methanol fuel cell, this electrode is a cathode. --

Amend paragraph [0063] as follows:

-- The separating wall 45 illustrated in Figure 12 is provided on both sides with identically designed counterelectrodes 46, 47 on an electrically nonconductive core 58. The counterelectrode 46 has a lattice-like mount 49 for a catalyst on a support sheet 48. This mount 49 consists includes especially of a titanium expanded metal mesh or titanium wire cloth. --

Amend paragraph [0069] as follows:

-- A fuel mixture consisting of including water and methanol is used in the fuel cell 30. This fuel mixture is fed to the reaction chambers 68, 69 of the segments through a common, closed-end feed line 66, for which purpose the feed line 66 is provided with openings 67 and forms part of the tip of each segment. The reaction chambers 68, 69 are filled with acidic methanol 70, 71 as the electrolyte. To ensure that the fuel mixture reliably enters the reaction chambers 68, 69, one pump 72, 73 for each fuel component is provided in a pump chamber 75. Whereas methanol enters the system from the outside through a pipe connection 74, the liquid phase 65, if water (but especially water from a separately constructed tank, e.g., in a chamber 76), can be fed to the combustion process from an internal source. --